

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_141_FEP



Description

SUCOFORM, the handformable microwave cable with protective jacket

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.94 mm
Dielectric	PTFE		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	3.58 mm
Jacket	FEP	RAL 3027 - rd	4.1 mm +/- 0.1
Print	HUBER+SUHNER SUCOFORM 141 FEP 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	33	GHz
Capacitance	92	pF/m
Velocity of signal propagation	71	%
Signal delay	4.7	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Min. screening effectiveness	>100	dB (up to 18 GHz)
Max. operating voltage	1.9	kV _{rms} (at sea level)
Test voltage	5	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	4.7	kg/100 m
Min. bending radius	static	8 mm
	repeated (for max. 50 bendings)	40 mm

Environmental Data

Temperature range	-65 °C... + 165 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1, UL 1581 § 1080 (VW-1)
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	SUCOFORM_141_FEP
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Additional Information

Remarks

(For details refer to the HUBER+SUHNER MICROWAVE CABLES AND ASSEMBLIES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group	crimped (Y5)
	clamped (Y12)
	soldered —

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Matrix **Attenuation** [formula: $(a \cdot f^{0.5} + b \cdot f)$] **and Power CW** [formula: $(p \cdot f^{0.5})$]

Coefficients:

a=	0.355	b=	0.04	f _{max} =	33	p _{at} 1GHz =	560
	Frequency		Nom. attenuation		Nom. attenuation		Max. CW power
	(GHz)		(dB / m)		(dB / ft)		(watt)
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	1.7		0.53		0.162		430
	3.3		0.78		0.238		308
	5.0		0.99		0.302		250
	6.6		1.18		0.360		218
	8.3		1.35		0.411		194
	9.9		1.51		0.460		178
	11.6		1.67		0.509		164
	13.2		1.82		0.555		154
	14.9		1.97		0.600		145
	16.5		2.10		0.640		138
	18.2		2.24		0.683		131
	19.8		2.37		0.722		126
	21.5		2.51		0.765		121
	23.1		2.63		0.802		117
	24.8		2.76		0.841		112
	26.4		2.88		0.878		109
	28.1		3.01		0.917		106
	29.7		3.12		0.951		103
	31.4		3.25		0.991		100
	33.0		3.36		1.024		97

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

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